

**DEPARTMENT OF TRANSPORTATION**

DES-OE MS #43  
1727 30TH Street, 2ND Floor  
Sacramento, CA 95816



**\*\* WARNING \*\* WARNING \*\* WARNING \*\* WARNING \*\***  
**This document is intended for informational purposes only.**

Users are cautioned that California Department of Transportation (Department) does not assume any liability or responsibility based on these electronic files or for any defective or incomplete copying, excerpting, scanning, faxing or downloading of the contract documents. As always, for the official paper versions of the bidders packages and non-bidder packages, including addenda write to the California Department of Transportation, Plans and Bid Documents, Room 0200, P.O. Box 942874, Sacramento, CA 94272-0001, telephone (916) 654-4490 or fax (916) 654-7028. Office hours are 7:30 a.m. to 4:15 p.m. When ordering bidder or non-bidder packages it is important that you include a telephone number and fax number, P.O. Box and street address so that you can receive addenda.

May 18, 2004

04-SF-80-13.2/13.9  
04-0120F4  
ACBRIM-080-1(095)N

Addendum No. 25

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SAN FRANCISCO COUNTY IN SAN FRANCISCO FROM 0.6 KM TO 1.3 KM EAST OF THE YERBA BUENA TUNNEL EAST PORTAL.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on May 26, 2004.

This addendum is being issued to revise the Project Plans, the Notice to Contractors and Special Provisions, and the Proposal and Contract.

Project Plan Sheets 412, 743, 745, and 760 are revised. Half-sized copies of the revised sheets are attached for substitution for the like-numbered sheets.

In the Special Provisions, in the Notice to Contractors, the eighth paragraph is revised as follows:

"To the extent feasible and at the discretion of the Department, completed Bidder Inquiries submitted for consideration will be investigated, and responses will be posted on the Internet at [http://www.dot.ca.gov/dist4/construction/Inquiries/04-0120F4\\_inquiry.html](http://www.dot.ca.gov/dist4/construction/Inquiries/04-0120F4_inquiry.html)."

In the Special Provisions, Section 2-1.06, "BIDDERS COMPENSATION," the third paragraph is revised as follows:

"Within 30 days of award of the contract, the Department will notify the Contractor of the identity of the recipients of the bidder compensation. The Contractor shall then make the necessary arrangements with the recipients in order to administer and pass-through the payment and provide proof of receipt to the Department in accordance with the payment provisions of Section 9-1.03B, "Work Performed by Special Forces or Other Special Services," of the Standard Specifications. The Contractor shall make payment to the designated recipients and provide proof of receipt to the Department within 5 days of receipt of the pass through payment."

04-SF-80-13.2/13.9  
04-0120F4  
ACBRIM-080-1(095)N

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the sixth paragraph is revised as follows:

"Phase 1 shall comprise of the Pier W2 capbeam, as defined in Section 10-1.01 "Order of Work," and shall be diligently prosecuted to completion by December 1, 2006."

In the Special Provisions, Section 4, "BEGINNING OF WORK, TIME OF COMPLETION, AND LIQUIDATED DAMAGES," the fourteenth paragraph is revised as follows:

"Should two or more liquidated damages accrue concurrently, no more than \$100,000 per day will be assessed. Total liquidated damages for the project will not exceed \$125,000,000."

In the Special Provisions, Section 5-1.16, "INTEGRATED SHOP DRAWINGS," the sixteenth paragraph is revised as follows:

"Construction of the Pier W2 Cap Beam and Pier E2 Cross Beam shall not begin until the Engineer has approved the complete ISD submittal with all conflicts resolved."

In the Special Provisions, Section 5-1.32, "RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME," the fourth paragraph is revised as follows:

"Any modifications to any agreement between the Department and the CDFG shall be fully binding on the Contractor, and the provisions of this section shall be made a part of every subcontract executed pursuant to this contract. Such modifications will be made in accordance with Section 4-1.03, "Changes" of the Standard Specifications."

In the Special Provisions, Section 5-1.33, "RELATIONS WITH REGIONAL WATER QUALITY CONTROL BOARD," the seventh paragraph is revised as follows:

"Any modifications to any agreement between the Department and the RWQCB shall be fully binding on the Contractor, and the provisions of this section shall be made a part of every subcontract executed pursuant to this contract. Such modifications will be made in accordance with Section, 4-1.03 "Changes" of the Standard Specifications."

In the Special Provisions, Section 5-1.34, "RELATIONS WITH US ARMY CORPS OF ENGINEERS," the fourth paragraph is revised as follows:

"When the Contractor is notified by the Engineer that a modification to the permit is under consideration, no work will be allowed on the proposed modification until the Department takes action on the proposed modification. Any modifications to any agreement between the Department and the ACOE shall be fully binding on the Contractor, and the provisions of this section shall be made a part of every subcontract executed pursuant to this contract. Such modifications will be made in accordance with Section 4-1.03, "Changes" of the Standard Specifications."

04-SF-80-13.2/13.9  
04-0120F4  
ACBRIM-080-1(095)N

In the Special Provisions, Section 5-1.35, "RELATIONS WITH SAN FRANCISCO BAY CONSERVATION DEVELOPMENT COMMISSION," the fourth paragraph is revised as follows:

"When the Contractor is notified by the Engineer that a modification to the permit is under consideration, no work will be allowed on the proposed modification until the Department takes action on the proposed modification. Any modifications to any agreement between the Department and BCDC shall be fully binding on the Contractor, and the provisions of this section shall be made a part of every subcontract executed pursuant to this contract. Such modifications will be made in accordance with Section 4-1.03, "Changes" of the Standard Specifications."

In the Special Provisions, Section 5-1.37, "RELATIONS WITH UNITED STATES FISH AND WILDLIFE SERVICE," the fourth paragraph is revised as follows:

"Any modifications to any agreement between the Department and the USFWS shall be fully binding on the Contractor, and the provisions of this section shall be made a part of every subcontract executed pursuant to this contract. Such modifications will be made in accordance with Section 4-1.03, "Changes" of the Standard Specifications."

In the Special Provisions, Section 5-1.38, "RELATIONS WITH NATIONAL MARINE FISHERIES SERVICES," the sixth paragraph is revised as follows:

"Any modifications to any agreement between the Department and the NMFS shall be fully binding on the Contractor, and the provisions of this section shall be made a part of every subcontract executed pursuant to this contract. Such modifications will be made in accordance with Section 4-1.03, "Changes" of the Standard Specifications."

In the Special Provisions, Section 10-1.18, "MOBILIZATION," is revised as attached.

In the Special Provisions, Section 10-1.185, "ESTABLISH MARINE ACCESS," the first sentence of the last paragraph is revised as follows:

"The adjustment provisions in Section 4-1.03, "Changes," of the Standard Specifications shall not apply to the contract lump sum price for establish marine access."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "MATERIALS," the following paragraph is added after the first paragraph:

"Steel plates designated as Grade 345 in thicknesses exceeding 100 mm shall conform to ASTM Designation: A572M (modified), Grade 345, with Supplementary Requirements: S5 Charpy V-Notch Impact Test (34 J at -12 degrees C with longitudinal specimen orientation and "H" heat frequency of testing); S28 Fine Grain Practice; S31 Maximum Carbon Equivalent for Weldability (0.50); and S90 Type (Type 1, 2 or 3 only)."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "ASSEMBLY," subsection "Box Girder," the following paragraph is added after the second paragraph:

"For the splices at the East Anchorage crossbeam, the Contractor shall field drill the bolt holes in one or both sides of each splice during final erection to ensure fit up, to accommodate the 15 mm deflection due to the transverse jacking of the box girders."

04-SF-80-13.2/13.9  
04-0120F4  
ACBRIM-080-1(095)N

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "WELD PROCEDURE QUALIFICATION," the first paragraph, Item A, is revised as follows:

"A. Qualification of Welding Procedure – Qualification testing shall be conducted for all welds and weld details as specified hereunder. Procedure qualification records (PQR) pertaining to tests conducted within the last 30 months, witnessed by Caltrans, and certified to be accurate will be accepted if the test material thickness was equal to or greater than the material to be used on the project, and the properties and qualification details meet the requirements of these special provisions. Otherwise, new tests shall be conducted. Qualification tests shall be performed in accordance with AWS D1.5 except that the thickness of the test plate shall not be less than the maximum thickness to be welded using the qualified procedure or 100 mm, whichever is less. Groove weld macroetch tests per AWS D1.5 are required for qualification of all complete joint penetration and partial joint penetration weld joint details not specified in AWS D1.5, Figure 2.4 or Figure 2.5."

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "INSPECTION AND TESTING," in the table following the fifth paragraph, under section "1. Box Girder," subsection "1.5 Other Box Welds," in the third row, the component "Deviation & Jacking Frame Saddles: Plate Welds" is revised as follows:

Deviation & Jacking Frame Saddles: Plate welds	X	X	X		100%	100% 25%	
---	---	---	---	--	------	-------------	--

In the Special Provisions, Section 10-1.51, "STEEL STRUCTURES," subsection "INSPECTION AND TESTING," in the table following the fifth paragraph, under section "3. Tower," in the tenth row, the component "Tower Saddle welds" is revised as follows:

Tower Saddle welds	X	X	X		100%	100% 100% 100%	
--------------------	---	---	---	--	------	----------------------	--

In the Special Provisions, Section 10-1.52, "CABLE SYSTEM," subsection "MATERIALS AND FABRICATION," subsection "Cable Band Bolts," the first paragraph is revised as follows:

"Cable band bolts shall conform to the requirements of ASTM Designation: A354, Grade BC. Nuts shall conform to the requirements of ASTM Designation: A563. Washers shall conform to ASTM Designation: F436. Cable band bolts, nuts and washers shall be galvanized. The cable band bolts shall have drilled recesses in the center of the bolt head and the center of the bolt shank for extensometer length measurements. All bolts shall receive heat treatment after final machining."

In the Proposal and Contract, the "PRE-AWARD INFORMATION/QUESTIONNAIRE (QUESTIONNAIRE)," is revised as attached.

To Proposal and Contract book holders:

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

Addendum No. 25  
Page 5  
May 18, 2004

04-SF-80-13.2/13.9  
04-0120F4  
ACBRIM-080-1(095)N

This office is sending this addendum by UPS overnight mail to all book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY J L DeFEVERE FOR:

REBECCA D. HARNAGEL, Chief  
Office of Plans, Specifications & Estimates  
Office Engineer

Attachments

#### **10-1.18 MOBILIZATION**

Mobilization shall conform to the provisions in Section 11, "Mobilization," of the Standard Specifications and these special provisions.

Attention is directed to Section 5-1.27, "PAYMENTS" of these special provisions, and Sections 9-1.06, "PARTIAL PAYMENTS," and 9-1.07, "PAYMENT AFTER ACCEPTANCE," of the Standard Specifications. Payments for mobilization will be made as follows:

- A. In the first monthly partial payment estimate, 25 percent of the contract item price for mobilization or 3.75 percent of the original contract amount, whichever is the lesser, will be included in the estimate for payment.
- B. In the fourth monthly partial payment estimate, 30 percent of the contract item price for mobilization or 4.5 percent of the original contract amount, whichever is the lesser, will be included in the estimate for payment.
- C. In the seventh monthly partial payment estimate, 30 percent of the contract item price for mobilization or 4.5 percent of the original contract amount, whichever is the lesser, will be included in the estimate for payment.
- D. In the tenth monthly partial payment estimate, 15 percent of the contract item price for mobilization or 2.25 percent of the original contract amount, whichever is the lesser, will be included in the estimate for payment.
- E. After acceptance of the contract pursuant to Section 7-1.17, "Acceptance of Contract," the amount, if any, of the contract item price for mobilization in excess of 15 percent of the original contract amount will be included for payment in the first estimate made in accordance with the provisions in Section 9-1.07.

The adjustment provisions in Section 4-1.03, "CHANGES," shall not apply to the contract lump sum item of mobilization. The retention of funds provisions in Section 5-1.27, "PAYMENTS" and Section 9-1.06, "PARTIAL PAYMENTS," shall apply to the contract lump sum item of mobilization.

**PRE-AWARD INFORMATION/QUESTIONNAIRE  
(QUESTIONNAIRE)**

SAN FRANCISCO OAKLAND BAY BRIDGE EAST SPAN  
SELF-ANCHORED SUSPENSION (SAS) BRIDGE  
(Bridge No. 34-0006 L/R)

**IN COMPLIANCE WITH GOVERNOR'S EXECUTIVE ORDER D-8-99**

**BIDDERS SHALL SUBMIT INFORMATION WITH THE PROPOSAL REGARDING THE FOLLOWING AS A  
CONDITION FOR AWARD OF THE PROJECT.**

**(See Section 2-1.03, Section 2-1.07, and Section 3 of the special provisions)**

Note: Whenever the word "bidder" is used, the response shall include the prime contractor and all proposed subcontractors, including but not limited to subsidiaries, fabricators, and suppliers of all subcontracted tiers.

**I. ORGANIZATION/EXPERIENCE**

1. Provide anticipated functional and staff personnel organizational chart for the project.
2. Provide resumes for the bidder's on site management staff, including engineers, craft supervisors, and administrators.
3. Provide resumes of construction engineers, superintendents, and/or third party engineers or firms responsible for both shop drawings and field construction of:
  - A. Main cable erection
  - B. Superstructure fabrication and erection
  - C. Tower fabrication and erection
4. Provide a summary of the bidder's experience and responsibilities in construction of steel orthotropic deck and suspension bridges. Include any experience with dehumidification systems, three-dimensional cable paths, S-wire, and prefabricated and/or pre-bent parallel wire strand (PWS) and how variation in lengths and stresses were dealt with. Include the experience and responsibilities of the bidder's partners, subcontractors, material suppliers, and construction engineers. Provide a list of specific projects and names and telephone numbers of contacts for the clients for each of the projects cited. Provide documentation such as copies of the general plan of each cited project and/or shop drawings and/or plan sheets of salient features of the cited projects that are similar to the Self Anchor Suspension span, including the following:
  - A. Type of cable
  - B. Cable supply and spinning, if applicable
  - C. Fabrication and erection of steel orthotropic box girders
  - D. Placement of steel deck roadway overlay and material of overlay used
  - E. Fabrication and erection of large steel elements as required for the Tower erection
5. Provide a summary of the bidder's experience in construction of major bridges in navigable waterways with oceangoing traffic lanes, in areas under the jurisdiction of the United States Coast Guard or similar units in other countries and subject to tides and strong currents high winds and fog similar to or more extreme than those found in the project limits.

CONTRACT NO. 04-0120F4  
REVISED PER ADDENDUM NO. 25 DATED MAY 18, 2004

6. Provide a summary of the bidder's experience in marine construction wherein environmental restrictions, permits, railroads, utilities, property owners, adjacent construction projects and/or other third parties imposed difficult restrictions and/or required difficult coordination including any citations for violations on these projects and how they were resolved.
7. Summarize the bidder's construction experience in responding to requests and complaints of the local community and the area businesses as well as the civic representatives.

## **II. STRUCTURAL STEEL ERECTION AND FABRICATION**

1. List all steel providers, manufacturers, and fabricators (of all tiers) considered and contacted for bid purposes (include city and state and country, if outside of the United States of America). Identify which shops have been selected for participation in the project. Diagram the relationships between the bidder, potential subcontractors and shops of all tiers.
2. What is the source of structural steel plate for the tower and orthotropic box girder sections?
3. For those anticipated to be involved in the project, provide a letter of intent to list and use all steel providers and fabricators and anticipated percentage of steel supplied. Include:
  - A. What is the location of fabrication and assembly facilities? Include the mailing address, the physical address, the owners, the managers, the specific description(s) of the items (including the item as shown in the Engineer's Estimate) and approximate total weight that are to be produced at the respective facility. If a fabricator or manufacturer has more than one facility where work will be performed, each facility shall be listed separately.
  - B. What is the schedule for fabrication and assembly (anticipated rate of production and how to achieve the rate of production) at each of the above named facilities? Show how these facilities will be able to maintain the project schedule.
  - C. Explain how fabricators are competent to perform this work. What expertise, in terms of experience with similar steel elements, grade of steel, and quality control procedure, do they have?
  - D. Does the facility have sufficient capacity (workspace and storage)? What steps will be taken to increase capacity, if necessary?
  - E. If any, provide a sample list of non-conformance incidents and resolutions on welding/fabrication in the cited projects in 4) of Section I.
  - F. Are the suppliers and fabricators AISC certified (in what category)? Have the self-qualification audits been checked for accuracy and affirmative answers? Provide any other information that demonstrates how all specified fabricators and suppliers will be able to pass a Department audit as specified in the Special Provisions under Steel Audit.
  - G. Do facilities have previous experience with Caltrans projects? If yes, please provide contract number and responsibility
4. What means of delivery of fabricated and assembled structural sections will be used? Where will it be delivered? Where will the material be stored until called for in the work?
5. Summarize the construction sequence of the tower and superstructure erection, detailing the methods, including locations of temporary supports for steel orthotropic box girders and means to secure tower elements during field erection, materials, personnel, and equipment to be used and the anticipated schedule.
6. To demonstrate technical ability and ability to meet the schedule, how will the steel orthotropic box girder sections be handled and erected at the jobsite? What type, capacity, and availability of hoisting equipment, land based and marine based, will be used? What barges and barge cranes will be used, and what is their registry? How does the Jones Act affect the operation of this equipment (if at all)?
7. To demonstrate technical ability and ability to meet the schedule, how will structural elements be protected from the environment during production, shipping, storage, and erection?



### **III. SUSPENSION CABLES**

1. To demonstrate technical ability and ability to meet the schedule, summarize the construction sequence of the cable system, detailing the methods, materials, personnel, and equipment to be used and the anticipated schedule.
2. What cable erecting equipment will be used and what is the source and availability of the cable erecting equipment? Identify how strand will be installed into deviation saddles.
3. What are the sources and availability of the materials for the cable system (wire, suspenders, castings, miscellaneous hardware, corrosion protection coating, and wrapping)?
4. What is the configuration of the storm cabling and has it been verified to comply with United States Coast Guard regulations and maintain the integrity of the navigation channels?
5. List all cable providers and fabricators considered and contacted for bid purposes.
6. For those anticipated to be involved in the project, provide a letter of intent to list and use all cable providers and fabricators and anticipated percentage of cable supplied. Include:
  - A. What is the location of fabrication and assembly facilities? Include the mailing address, the physical address, the owners, the managers, the specific description(s) of the items (including the item as shown in the Engineer's Estimate) and approximate total weight that are to be produced at the respective facility. If a fabricator or manufacturer has more than one facility where work will be performed, each facility shall be listed separately.
  - B. What is the schedule for fabrication and assembly (anticipated rate of production and how to achieve the rate of production) at each of the above named facilities? Show how these facilities will be able to maintain the project schedule.
  - C. Explain how fabricators are competent to perform this work. What expertise, in terms of experience with similar steel elements, grade of steel, and quality control procedure, do they have?
  - D. Does the facility have sufficient capacity (workspace and storage)? What steps will be taken to increase capacity, if necessary?
  - E. If any, provide a sample list of non-conformance incidents and resolutions on welding/fabrication in the cited projects in 4) of Section I.
  - F. Are the suppliers and fabricators AISC certified (in what category)? Have the self-qualification audits been checked for accuracy and affirmative answers? Will they be able to pass a Department audit?
  - G. How will materials be shipped? Will they be stored on or near the worksite, or will the parts be immediately erected?
7. How will the elements of cable system be protected from the environment and damage during production, shipping, storage, and erection?
8. How will the PWS be adjusted for tension and length around the deviation saddles? How will residual stresses in any wire be accounted for?
9. How is the bridge load going to be transferred to the hangers?

### **IV. ACCESS AND LOGISTICS**

1. What are the bidder's anticipated field and office daily work hours, number of shifts, and number of workdays per week for the following principle items of work?
  - A. Suspension cables
  - B. Box girder erection
  - C. Tower

2. What areas or facilities does the bidder anticipate using for assembly, storage and/or staging of materials?
3. What areas does the bidder anticipate using for staging of personnel, provide access to construction sites, and for employee parking?
4. Summarize the bidder's planned sequence of construction and potential problems anticipated.

#### **V. MANUFACTURING AND FABRICATION SELF QUALIFICATION AUDIT**

The Contractor shall submit a "Manufacturing and Fabrication Self Qualification Audit," (MFSQA) of each facility used by any subcontractor, supplier, or fabricator, including those of all lower subcontracted tiers, to prepare materials for all the items of work listed in Section 2-1.03, "Pre-Award Information/Questionnaire," of the special provisions.